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APPLICATION NO.	FILING D	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,876	07/10/2003		Junichi Hikita	103213-00051	8479
4372	7590	01/13/2005		EXAM	INER
		PLOTKIN & I	ZARNEKE, DAVID A		
1050 CONNE SUITE 400	CTICUT AVE	ENUE, N.W.	ART UNIT	PAPER NUMBER	
WASHINGTO	ON, DC 2003	36		2829	

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office A - 41 Over	10/615,876	HIKITA ET AL.					
Office Action Summary	Examiner	Art Unit					
	David A. Zameke	2829					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 10 Ju	<u>ıly 2003</u> .	•					
2a) This action is FINAL . 2b) ☐ This	action is non-final.	•					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	`						
4) ☐ Claim(s) 6-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 6-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) \square The drawing(s) filed on 10 July 2003 is/are: a)	10)⊠ The drawing(s) filed on <u>10 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	*	, ,					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage					
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
I) ⊠ Notice of References Cited (PTO-892) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7/10/03.		atent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6 and 7 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Wenzel et al., US Patent 6,150,724.

Wenzel teaches a semiconductor chip (102) having a plurality of chip connection portions formed on a surface thereof,

wherein the plurality of chip connection portions are arranged in positions standardized among a plurality of predetermined types of semiconductor chips (6, 47+).

Regarding claim 7, Wenzel the plurality of predetermined types of semiconductor chips have identical functions but are of different grades (6, 47+).

Claims 9 and 10 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Wenzel et al., US Patent 6,150,724.

Wenzel teaches a semiconductor chip having a plurality of chip connection portions formed on a surface thereof,

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wherein the plurality of chip connection portions are arranged in positions standardized among a plurality of predetermined types of semiconductor chips (6, 47+), and are arranged along an edge of the semiconductor chip (figure 18).

With respect to claim 10, Wenzel teaches the chip connection portions are arranged also in an inner portion of the semiconductor chip somewhat away from the edge thereof (figure 18).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wenzel et al., US Patent 6,150,724.

Wenzel teaches a semiconductor chip having, on a surface thereof, a chip connection region that fits any of a plurality of predetermined types of semiconductor chips,

wherein, in the chip connection region, chip connection portions are formed in standardized positions so as to fit any of the plurality of predetermined types of semiconductor chips (6, 47+), and the chip connection portions are arranged along an edge of the chip connection region, and the chip connection portions are arranged along opposite sides of the chip connection region (figure 18).

Wenzel fails to teach the chip connection region is rectangular in shape.

The examiner takes the position that a rectangular chip connection region is an obvious matter of design choice. Design choices and changes of size or shape are generally recognized as being within the level of ordinary skill in the art (MPEP 2144.04(I), (IVA) & (IVB)).

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wenzel et al., US Patent 6,150,724, as applied to claim 9 above.

Wenzel, which teaches the chip connection portions are arranged along opposite sides of the semiconductor chip (figure 18), fails to teach the semiconductor chip is rectangular in shape.

The examiner takes the position that a rectangular chip connection region is an obvious matter of design choice. Design choices and changes of size or shape are generally recognized as being within the level of ordinary skill in the art (MPEP 2144.04(I), (IVA) & (IVB)).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited but not relied upon teaches the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Zarneke whose telephone number is (571)-272-1937. The examiner can normally be reached on M-F 7:30 AM-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (571)-272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David A. Zarneke

Primary Examiner January 9, 2005